

SEQUENCE LISTING

DT09 Rec'd PCT/PTO 28 JUN 2004

<110> National Institute of Advanced Industrial Science and Technology

<120> Gene and peptide for transcriptional repressor

<130> PH-1684-PCT

<150> JP 2001-395487

<151> 2001-12-26

<150> JP 2001-395488

<151> 2001-12-26

<150> JP 2002-160671

<151> 2002-5-31

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<222> (1) (615)

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<301> Sakai, H., Medrano, L. J. and Meyerowitz, E. M.

<302> Role of SUPERMAN in maintaining Arabidopsis floral whorl boundaries

<303> Nature

<304> 378

<305> 6553

<306> 199-203

<307> 1995

<308> U38946

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Ala Arg Thr Ser Pro Trp Ser Tyr Gly Asp Tyr Asp Asn Cys Gln Gln

20 25 30

gat cat gat tat ctt cta ggg ttt tca tgg cca cca aga tcc tac act 144

Asp His Asp Tyr Leu Leu Gly Phe Ser Trp Pro Pro Arg Ser Tyr Thr

35 40 45

tgc agc ttc tgc aaa agg gaa ttc aga tcg gct caa gca ctt ggt ggc 192

Cys Ser Phe Cys Lys Arg Glu Phe Arg Ser Ala Gln Ala Leu Gly Gly

50 55 60

cac atg aat gtt cac aga aga gac aga gca aga ctc aga tta caa cag 240

His Met Asn Val His Arg Arg Asp Arg Ala Arg Leu Arg Leu Gln Gln

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Ser Pro Ser Ser Ser Ser Thr Pro Ser Pro Pro Tyr Pro Asn Pro Asn			
85	90	95	
tac tct tac tca acc atg gca aac tct cct cct cct cat cat tct cct	336		
Tyr Ser Tyr Ser Thr Met Ala Asn Ser Pro Pro Pro His His Ser Pro			
100	105	110	
cta acc cta ttt cca acc ctt tct cct cca tcc tca cca aga tat agg	384		
Leu Thr Leu Phe Pro Thr Leu Ser Pro Pro Ser Ser Pro Arg Tyr Arg			
115	120	125	
gca ggt ttg atc cgt tcc ttg agc ccc aag tca aaa cat aca cca gaa	432		
Ala Gly Leu Ile Arg Ser Leu Ser Pro Lys Ser Lys His Thr Pro Glu			
130	135	140	
aac gct tgt aag act aag aaa tca tct ctt tta gtg gag gct gga gag	480		
Asn Ala Cys Lys Thr Lys Lys Ser Ser Leu Leu Val Glu Ala Gly Glu			
145	150	155	160
gct aca agg ttc acc agt aaa gat gct tgc aag atc ctg agg aat gat	528		
Ala Thr Arg Phe Thr Ser Lys Asp Ala Cys Lys Ile Leu Arg Asn Asp			
165	170	175	
gaa atc atc agc ttg gag ctt gag att ggt ttg att aac gaa tca gag	576		
Glu Ile Ile Ser Leu Glu Leu Glu Ile Gly Leu Ile Asn Glu Ser Glu			
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<222> (1) (1887)

<223>

<300>

<301>

Chao, Q. , Rothenberg, M. , Solano, R. , Roman, G. , Terzaghi, W. and Ecker, J. R.

<302>

Activation of the ethylene gas response pathway in Arabidopsis by the nuclear protein
ETHYLENE-INSENSITIVE3 and related proteins

<303> Cell

<304> 89

<305> (7)

<306> 1133-1144

<307> (1997)

<308> AF004216

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Ser Gly Ser Leu Gly Glu Val Asp Phe Cys Pro Val Pro Gln Ala Glu

20

25

30

cct gat tcc att gtt gaa gat gac tat act gat gat gag att gat gtt 144

Pro Asp Ser Ile Val Glu Asp Asp Tyr Thr Asp Asp Glu Ile Asp Val

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40

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Asp Glu Leu Glu Arg Arg Met Trp Arg Asp Lys Met Arg Leu Lys Arg

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 Arg Gln Ser Gln Glu Gln Ala Arg Arg Lys Lys Met Ser Arg Ala Gln
 85 90 95
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 Asp Gly Ile Leu Lys Tyr Met Leu Lys Met Met Glu Val Cys Lys Ala
 100 105 110
 caa ggc ttt gtt tat ggg att att ccg gag aat ggg aag cct gtg act 384
 Gln Gly Phe Val Tyr Gly Ile Ile Pro Glu Asn Gly Lys Pro Val Thr
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 Gly Ala Ser Asp Asn Leu Arg Glu Trp Trp Lys Asp Lys Val Arg Phe
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 145 150 155 160
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 Ile Pro Gly Ile His Glu Gly Asn Asn Pro Ile Gly Pro Thr Pro His
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 Thr Leu Gln Glu Leu Gln Asp Thr Thr Leu Gly Ser Leu Leu Ser Ala
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 His Asp Leu Lys Lys Ala Trp Lys Val Gly Val Leu Thr Ala Val Ile
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 aag cat atg ttt cct gat att gct aag atc cgt aag ctc gtg agg caa 816
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 His Tyr Glu Val Glu Glu Leu Lys Pro Glu Lys Val Met Asn Ser Ser
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<222> (1) (678)

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<301> Ohme-Takagi, M. and Shinshi, H.

<302>

Ethylene-inducible DNA binding proteins that interact with an ethylene-responsive

element

<303> Plant Cell

<304> 7

<305> (2)

<306> 173-182

<307> 1995

<308> D38124

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Val Lys Thr Asp Gly Val Lys Glu Val His Tyr Arg Gly Val Arg Lys

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agg cca tgg ggt cgg tat gca gct gaa atc cgt gac ccg ggt aag aag 144

Arg Pro Trp Gly Arg Tyr Ala Ala Glu Ile Arg Asp Pro Gly Lys Lys

35 40 45

agt cgg gtc tgg tta ggt act ttc gac acg gcg gaa gag gcg gct aag 192

Ser Arg Val Trp Leu Gly Thr Phe Asp Thr Ala Glu Glu Ala Ala Lys

50 55 60

gcg tac gac acc gcc gct cga gag ttt cgt gga ccc aaa gca aaa act 240

Ala Tyr Asp Thr Ala Ala Arg Glu Phe Arg Gly Pro Lys Ala Lys Thr

65 70 75 80

aac ttc cct tca ccg acg gag aat cag agc cca agt cac agc agc acc 288

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<222> (1) (933)

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<301> Takada, S., Hibara, K., Ishida, T., Tasaka, M.

<302>

The cup-shaped cotyledon1 of Arabidopsis regulates shoot apical meristem formation

<303> Development

<304> 128

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<306> 1127-1135

<307> 2001

<308> AB049069

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Glu Ser Leu Met Pro Pro Gly Phe Arg Phe His Pro Thr Asp Glu Glu
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Leu Ile Thr Tyr Tyr Leu Leu Lys Lys Val Leu Asp Ser Asn Phe Ser
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Cys Ala Ala Ile Ser Gln Val Asp Leu Asn Lys Ser Glu Pro Trp Glu
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Leu Arg Asp Arg Lys Tyr Pro Thr Gly Leu Arg Thr Asn Arg Ala Thr
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115	120	125	
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Ser Arg Glu Thr Asn Leu Ile Ser Ser Ser Ser Ser Ser Ala Val Thr			
180	185	190	
gga gag ttc tcc tct gcc ggt tct gca att gct ccg atc atc aat acc 624			
Gly Glu Phe Ser Ser Ala Gly Ser Ala Ile Ala Pro Ile Ile Asn Thr			
195	200	205	
ttt gcg acg gag cac gtg tcc tgt ttc tcc aat aac tct gct gct cat 672			
Phe Ala Thr Glu His Val Ser Cys Phe Ser Asn Asn Ser Ala Ala His			
210	215	220	
acc gat gcg agc ttt cat aca ttc ctt ccc gct cca ccg ccg tca ctg 720			
Thr Asp Ala Ser Phe His Thr Phe Leu Pro Ala Pro Pro Pro Ser Leu			
225	230	235	240
ccc cca cgt cag cca cgt cac gtc ggt gat ggc gtg gcg ttt ggt cag 768			
Pro Pro Arg Gln Pro Arg His Val Gly Asp Gly Val Ala Phe Gly Gln			

245	250	255
ttt ctg gat ttg gga tca tcg gga cag att gat ttc gat gca gca gca 816		
Phe Leu Asp Leu Gly Ser Ser Gly Gln Ile Asp Phe Asp Ala Ala Ala		
260	265	270
gca gcg ttc ttt ccg aat cta cct tct ctg cct ccc acg gtt ctt cct 864		
Ala Ala Phe Phe Pro Asn Leu Pro Ser Leu Pro Pro Thr Val Leu Pro		
275	280	285
cct cct ccg tca ttt gca atg tac ggt gga ggc tcc ccc gcc gtg agt 912		
Pro Pro Pro Ser Phe Ala Met Tyr Gly Gly Gly Ser Pro Ala Val Ser		
290	295	300
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Val Trp Pro Phe Thr Leu ***		
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<301> Borevitz J. O., Xia Y., Blount J., Dixon R. A., Lamb C.

<302>

Activation tagging identifies a conserved MYB regulator of phenylpropanoid biosynthesis.

<303> Plant Cell

<304> 12

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<307> 2000

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15

gaa gat agt ctc ttg aga cag tgc att aat aag tat gga gaa ggc aaa 96

Glu Asp Ser Leu Leu Arg Gln Cys Ile Asn Lys Tyr Gly Glu Gly Lys

20	25	30	
tgg cac caa gtt cct gta aga gct ggg cta aac cgg tgc agg aaa agt	144		
Trp His Gln Val Pro Val Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser			
35	40	45	
tgt aga tta aga tgg ttg aac tat ttg aag cca agt atc aag aga gga	192		
Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly			
50	55	60	
aaa ctt agc tct gat gaa gtc gat ctt ctt ctt cgc ctt cat agg ctt	240		
Lys Leu Ser Ser Asp Glu Val Asp Leu Leu Leu Arg Leu His Arg Leu			
65	70	75	80
cta ggg aat agg tgg tct tta att gct gga aga tta cct ggt cgg acc	288		
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr			
85	90	95	
gca aat gac gtc aag aat tac tgg aac act cat ctg agt aag aaa cat	336		
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu Ser Lys Lys His			
100	105	110	
gaa ccg tgt tgt aag ata aag atg aaa aag aga gac att acg ccc att	384		
Glu Pro Cys Cys Lys Ile Lys MET Lys Lys Arg Asp Ile Thr Pro Ile			
115	120	125	
cct aca aca ccg gca cta aaa aac aat gtt tat aag cct cga cct cga	432		
Pro Thr Thr Pro Ala Leu Lys Asn Asn Val Tyr Lys Pro Arg Pro Arg			
130	135	140	
tcc ttc aca gtt aac aac gac tgc aac cat ctc aat gcc cca cca aaa	480		
Ser Phe Thr Val Asn Asn Asp Cys Asn His Leu Asn Ala Pro Pro Lys			
145	150	155	160
gtt gac gtt aat cct cca tgc ctt gga ctt aac atc aat aat gtt tgt	528		
Val Asp Val Asn Pro Pro Cys Leu Gly Leu Asn Ile Asn Asn Val Cys			
165	170	175	
gac aat agt atc ata tac aac aaa gat aag aag aaa gac caa cta gtg	576		
Asp Asn Ser Ile Ile Tyr Asn Lys Asp Lys Lys Lys Asp Gln Leu Val			

180	185	190	
aat aat ttg att gat gga gat aat atg tgg tta gag aaa ttc cta gag			624
Asn Asn Leu Ile Asp Gly Asp Asn MET Trp Leu Glu Lys Phe Leu Glu			
195	200	205	
gaa agc caa gag gta gat att ttg gtt cct gaa gcg acg aca aca gaa			672
Glu Ser Gln Glu Val Asp Ile Leu Val Pro Glu Ala Thr Thr Thr Glu			
210	215	220	
aag ggg gac acc ttg gct ttt gac gtt gat caa ctt tgg agt ctt ttc			720
Lys Gly Asp Thr Leu Ala Phe Asp Val Asp Gln Leu Trp Ser Leu Phe			
225	230	235	240
gat gga gag act gtg aaa ttt gat tag			747
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245

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<301> Kirik V., Schnittger A., Radchuk V., Adler K., Hulskamp M. Baumlein H.

<302>

Ectopic expression of the Arabidopsis AtMYB23 gene induces differentiation of trichome cells.

<303> Developmental Biology

<304> 235

<305>

<306> 366-377

<307> 2001

<308> Z68158

<400> 69

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Trp Thr Val Glu Glu Asp Lys Ile Leu MET Asp Tyr Val Arg Thr His

20 25 30

ggc cag ggc cac tgg aac cgc atc gcc aag aaa act ggg ctc aag aga 144

Gly Gln Gly His Trp Asn Arg Ile Ala Lys Lys Thr Gly Leu Lys Arg

35 40 45

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